

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P297076

Luminaire Tested: **D3X-WG-50L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-50L82765-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4431.0 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

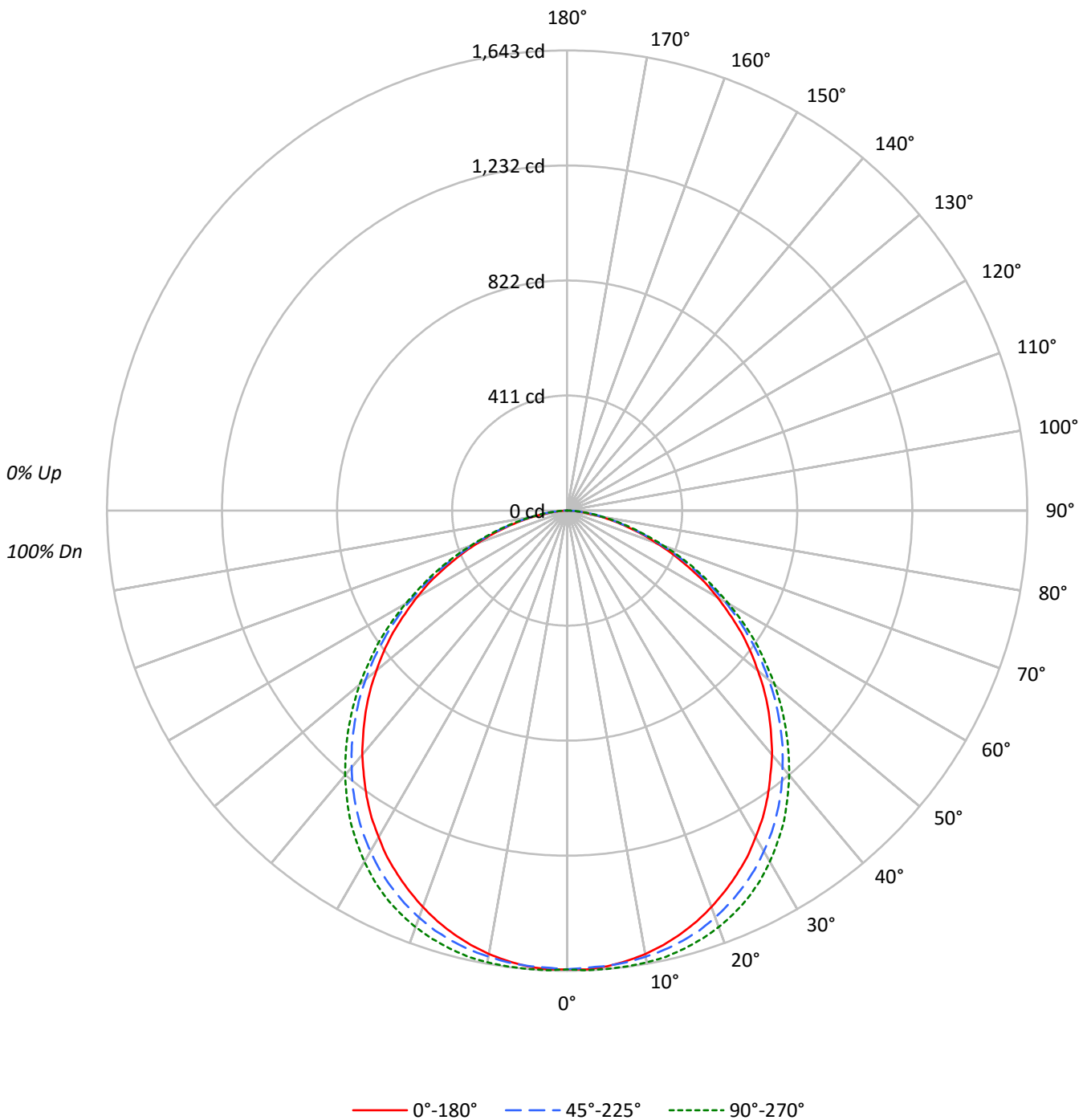
Input Watts (W): 34.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2204	2204	2204
5°	2206	2204	2219
10°	2197	2210	2238
15°	2180	2215	2255
20°	2157	2214	2266
25°	2128	2203	2267
30°	2091	2182	2249
35°	2049	2151	2219
40°	1999	2102	2166
45°	1936	2042	2102
50°	1861	1967	2027
55°	1780	1869	1929
60°	1666	1751	1794
65°	1521	1602	1642
70°	1336	1405	1443
75°	1131	1188	1229
80°	898	984	1009
85°	613	735	710



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.6	3.5
10°-20°	449.3	10.1
20°-30°	682.9	15.4
30°-40°	814.8	18.4
40°-50°	823.0	18.6
50°-60°	709.0	16.0
60°-70°	494.3	11.2
70°-80°	244.9	5.5
80°-90°	57.1	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1287.9	29.1
0°-40°	2102.7	47.5
0°-60°	3634.7	82.0
0°-90°	4431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4431.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1633	1632	1632	1640	1643	155
15°	1565	1573	1590	1611	1619	441
25°	1433	1452	1484	1514	1527	660
35°	1248	1268	1310	1340	1351	780
45°	1017	1040	1073	1098	1105	784
55°	759	775	797	816	822	676
65°	478	487	503	508	516	474
75°	218	221	229	233	236	234
85°	40	48	48	44	46	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1638.0	1638.0	1638.0	1638.0	1638.0
2.5°	1639.6	1636.5	1633.3	1639.6	1642.8
5°	1633.3	1631.7	1631.7	1639.6	1642.8
7.5°	1622.2	1622.2	1626.9	1638.0	1641.2
10°	1607.9	1611.1	1617.4	1633.3	1638.0
12.5°	1588.8	1595.2	1606.3	1625.3	1631.7
15°	1565.0	1573.0	1590.4	1611.1	1619.0
17.5°	1538.0	1549.2	1571.4	1595.2	1603.1
20°	1506.3	1520.6	1546.0	1573.0	1582.5
22.5°	1471.4	1488.8	1517.4	1546.0	1557.1
25°	1433.3	1452.3	1484.1	1514.2	1526.9
27.5°	1393.6	1412.7	1447.6	1477.7	1490.4
30°	1346.0	1368.2	1404.7	1436.5	1447.6
32.5°	1300.0	1322.2	1360.3	1388.8	1400.0
35°	1247.6	1268.2	1309.5	1339.6	1350.8
37.5°	1192.0	1215.8	1255.5	1282.5	1292.0
40°	1138.1	1158.7	1196.8	1223.8	1233.3
42.5°	1077.7	1100.0	1138.1	1161.9	1169.8
45°	1017.4	1039.7	1073.0	1098.4	1104.7
47.5°	955.5	976.2	1009.5	1030.1	1036.5
50°	888.9	907.9	939.7	960.3	968.2
52.5°	825.4	842.8	869.8	887.3	892.0
55°	758.7	774.6	796.8	815.8	822.2
57.5°	687.3	704.7	725.4	741.2	746.0
60°	619.0	633.3	650.8	665.1	666.6
62.5°	552.4	558.7	574.6	587.3	588.9
65°	477.8	487.3	503.2	507.9	515.9
67.5°	409.5	415.9	428.6	434.9	441.3
70°	339.7	344.4	357.1	365.1	366.7
72.5°	279.4	280.9	290.5	296.8	298.4
75°	217.5	220.6	228.6	233.3	236.5
77.5°	165.1	168.2	174.6	177.8	177.8
80°	115.9	120.6	127.0	128.6	130.2
82.5°	74.6	80.9	85.7	87.3	84.1
85°	39.7	47.6	47.6	44.4	46.0
87.5°	14.3	17.5	19.0	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)